

Product datasheet for SC118299

Retinoid X Receptor alpha (RXRA) (NM_002957) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Retinoid X Receptor alpha (RXRA) (NM_002957) Human Untagged Clone
Tag:	Tag Free
Symbol:	Retinoid X Receptor alpha
Synonyms:	NR2B1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_002957 edited
 ATGGACACAAACATTTCTGCCGCTCGATTTCTCCACCCAGTGAACCTCCCTCACC
 TCCCCGACGGGGCGAGGCTCCATGGCTGCCCCCTCGCTGCACCCGTCCTGGGGCTGGC
 ATCGGCTCCCGGACAGCTGCATTCTCCCATCAGCACCCCTGAGCTCCCCATCAACGGC
 ATGGGCCCGCCTTTCTCGGTCATCAGCTCCCCATGGGCCCCACTCCATGTCGGTGCC
 ACCACACCCACCTGGGCTTCAGCACTGGCAGCCCCAGCTCAGCTCACCTATGAACCC
 GTCAGCAGCAGGAGACATCAAGCCCCCTGGGCTCAATGGCGTCTCAAGTCCCC
 GCCCACCCCTCAGGAAACATGGCTTCCTTACCAAGCACATCTGCGCCATCTGCGGGAC
 CGCTCCTCAGGCAAGCACTATGGAGTGTACAGCTGCGAGGGGTGCAAGGGCTTCTCAAG
 CGGACGGTGCAGCAAGGACCTGACCTACACCTGCCGCGACAACAAGGACTGCCTGATTGAC
 AAGCGGCAGCGGAACCGGTGCCAGTACTGCCGCTACCAGAAGTGCCTGGCCATGGGCATG
 AAGCGGGAAGCCGTGCAGGAGGAGCGGCAGCGTGGCAAGGACCGGAACGAGAATGAGGTG
 GAGTCGACCAGCAGCGCAACGAGGACATGCCGGTGGAGAGGATCCTGGAGGCTGAGCTG
 GCCGTGGAGCCCAAGACCGAGACCTACGTGGAGGCAAACATGGGGCTGAACCCAGCTCG
 CCGAACGACCCTGTACCAACATTTGCCAAGCAGCCGACAAACAGCTTTTACCCTGGTG
 GAGTGGGCAAGCGGATCCCACACTTCTCAGAGCTGCCCTGGACGACCAGGTATCCTG
 CTGCGGGCAGGCTGGAATGAGCTGCTCATCGCCTCCTTCTCCACCGCTCCATCGCCGTG
 AAGGACGGGATCCTCCTGGCCACCGGGTGCACGTCCACCGGAACAGCGCCACAGCGCA
 GGGTGGGGCCCATCTTTGACAGGGTGTGACGGAGCTTGTGTCCAAGATGCGGGACATG
 CAGATGGACAAGACGGAGCTGGGCTGCCTGCGCGCCATCGTCTCTTTAACCCCTGACTCC
 AAGGGGCTCTCGAACCCGCGGAGGTGGAGGCGCTGAGGGAGAAGGTCTATGCGTCTTG
 GAGGCTACTGCAAGCACAAGTACCAGAGCAGCCGGGAAGTTTCGTAAGCTCTTGCTC
 CGCCTGCCGGCTCTGCGCTCCATCGGGCTCAAATGCCTGGAACATCTCTTCTTCTCAAG
 CTCATCGGGGACACACCCATTGACACCTTCTTATGGAGATGCTGGAGGCGCCGACCAA
 ATGACTTAG



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002957 unedited ACAAACCTCTCTTCCCGCCCGTTGNCNCACTAGGGCGGTAGCGTGTACGGTGGGAAGGT CTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGG GCGGCCGCGAATTCGGCACGAGCCGCGCCGCCACCGCAGCCGCGGCTCCCCGCCGCC GGGCCCGGGCCGCGCCGCGGGGGCCCGCCGCCCGCCCGCCCGCTGCCTGCGCCGCCG CCGGGCATGAGTTAGTCGACACATGGACACCAAAATTTCTGCCGCTCGATTTCTCCA CCCAGGTGAACCTCTCCCTCACCTCCCCGACGGGGCGAGGCTCCATGGCTGCCCCCTCG TGCACCCGTCCTGGGGCTGGCATCGGCTCCCGGGACAGCTGCATTCTCCCATCAGCA CCCTGAGCTCCCCCATCAACGGCATGGGCCCGCTTTCTCGGTATCAGCTCCCCATGG GCCCCACTCCATGTCGGTGGCCACCACACCACCTGGGCTTACGACTGGCAGCCCC AGCTCAGCTCACCTATGAACCCGTCAGCAGCAGCGAGGACATCAAGCCCCCTGGGCC TCAATGGCGTCTCAAGTCCCCGCCACCCCTCAAGAAACATGGCTTCTTACCAAGC ACATCTGCGCCATCTGCGGGACCGCTCCTCAGCAAGCACTATGGAGTGTACAGCTGCGA GGGGTGCAAGGGTTCTTCAAGCGGACGGTGCGAAGGACCTGACCTACACCTGCCGCA CAACAAGGACTGCCCTGATTGACAGCGCAGCGGAACCGGTGCCAGTACTGCCGTACC ANAAGTGCTGGCCATGGGCATGAACCGGAAGCCTTGAAGAGGACCGCACCT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002957 unedited TGGGCCGAATCACTGTGNACCGCCCTCTTNNCTANGATCGGTTTNTTTTTTTTTTTT TTTAAAAGGGGGGACA ACCCATTTTTTAAGCAAAACAGTGACAGGCTGGGCCCAAAGTCCAAACAGGCCAGGCAA AAAAGGGCAGGGACAGGCTCAGGCTGAAAAAATTTGGGTCCACGCAGGGGGGCCAA AACGGGGGGCACAAAGGATGGGCCCCAGGCCTAAATCATTTGGGGGGCGCCTCCAGC ATTTCCATAAGGAAGGGTCAATGGGGGGTCCCGATGAGCTTGAATAAAAAAAAAATGT TCCAGGCAATTGACCCCATGGAGCCAAAACCCAGGCGGAACAAGAACTTAACGAAC CTTCCCGGTGCTCTGGGTACTTGGGCTTGCAAAAGGCCCCAAAGGACCCATAAACCTTT TCCCTTAGGGCTCCACCTTGGCCGGTTCGAAAGCCCTTGGAGTCAGGGTAAAAAG GACAAAGCGCCAGGCAACCAACTCCGTTTTGGCCATTTGCATGTCCCGCATTTTGA CACAAGCTCCGTACGCCACCTGTAAAAATGGCGCCACCCCTGCCCTATATGGCGCTTT TCCGGTGGACGTGACCCCGTGGCCAAGAAGATCCCTCCTTACGGCGAATGGAACGG TGGGAAAAAGAAGCCAAAAACACACTTATTCCAACCTGCCCCCAAAAAGAATGACCC TGGTCTTCCAGGGGGCAACTTTGAAAAATGTGGGGATCCGCTTGGCCCCCTCCACCA CGGGTAAAAACCTGTTTTCCGGCTGCTGTGCAATGTTTGGGAAAGGTCCTCTCCG CGAACCTGGGGTGC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_002957
Insert Size:	1389 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_002957.3](#), [NP_002948.1](#)

RefSeq Size: 5449 bp

RefSeq ORF: 1389 bp

Locus ID: 6256

UniProt ID: [P19793](#)

Cytogenetics: 9q34.2

Domains: HOLI, zf-C4

Protein Families: Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

Protein Pathways: Adipocytokine signaling pathway, Non-small cell lung cancer, Pathways in cancer, PPAR signaling pathway, Small cell lung cancer, Thyroid cancer

Gene Summary: Retinoid X receptors (RXRs) and retinoic acid receptors (RARs) are nuclear receptors that mediate the biological effects of retinoids by their involvement in retinoic acid-mediated gene activation. These receptors function as transcription factors by binding as homodimers or heterodimers to specific sequences in the promoters of target genes. The protein encoded by this gene is a member of the steroid and thyroid hormone receptor superfamily of transcriptional regulators. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, May 2014]
Transcript Variant: This variant (1) encodes the longest isoform (a).